Form MR-SMO (Revised July 25, 2012)

Assistant DOCM File No : C/O 3 5 / ///) S S	
Assigned DOGM File No.: S/0 3 5/0055	
DOGM Lead:	
Permit Fee \$ 150 Ck# On tac CC Page	1

## STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

1594 West North Temple Suite 1210 Box 145801

Salt Lake City, Utah 84114-5801 Telephone: (801) 538-5291 Fax: (801) 359-3940 RECEIVED

JUN 1 5 2022

DIV OF OIL, GAS & MINING

#### NOTICE OF INTENTION TO COMMENCE SMALL MINING OPERATIONS

The information requirements of this form are based on provisions of the Mined Land Reclamation Act, Title 40-8, Utah Code Annotated 1987, and the General Rules as promulgated under the Utah Minerals Regulatory Program (R647). The rules and Act are available online at

http://www.rules.utah.gov/publicat/code/r647/r647.htm and http://le.utah.gov/~code/TITLE40/40\_08.htm.

Cultural Resources Survey: To fulfill its obligations under Utah Code Annotated 9-8-404, the Division needs cultural resource (archaeology) information. The amount and type of information required will depend on the mine location, the history of previous disturbance, and other factors. Please contact the Division for further information.

A permit fee of \$150 must accompany this application (Utah Code Ann. §40-8-7(1)(i)) and is due annually.

"Small Mining Operations" are operations which have a disturbed area of ten or fewer surface acres at any time in unincorporated areas, or five acres or fewer in incorporated areas.

#### I. GENERAL INFORMATION (Rule R647-3-104)

1.	Name of Mine: I-80 South Quarry
2.A.	Name of Entity Applying for a Permit: Granite Construction Company
	Contact (Authorized Officer): Mike Tatusko
	Mailing Address: 1000 N Warm Springs Road
	City, State, Zip: Salt Lake City, UT 84116
	Phone: 801-526-6126 Fax:801-562-6049
	E-mail Address: I80.SouthQuarry@gcinc.com
	Entity is a: (X) Corporation, () LLC, () Sole Proprietorship (dba), () Individual,
	() Partnership (General, orlimited), () Other (specify type)
	Business Entity (not individuals) must be registered (and maintain registration) with the
	Business Entity (not individuals) must be registered (and maintain registration) with the State of Utah, Division of Corporations (DOC) If not currently registered, contact
	www.commerce.utah.gov to renew or apply.
2.B.	Are you currently registered to do business in the State of Utah? (X) Yes () No
	Business Entity #: 624643-0143
	Local Business License #: (if required)
	Issued by: County: Salt Lake County or City:
	Registered Utah Agent (as identified with the Utah DOC) (if individual leave blank):
	Name: CT CORPORATION SYSTEM Title: Operator
	Address: 585 West Beach Street
	City, State, Zip: Watsonville, CA 95077
	Phone: 801-526-6126 Fax:
	E-mail Address: <u>I80.SouthQuarry@gcinc.com</u>

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2.C. Entity's Representative(s) (if different f notices of violation, cessation orders, a operator by the Division.	rom #2A) authorized and designated to receive and all other notices to be given to the permittee o
Name: Same as #2A	Title:
City State Zip:	
Phone:	Fax:
Emergency, Weekend, or Holiday P	hone:
E-mail Address:	
	Title:
	Title.
City, State, Zip:	
Phone:	Fax <sup>-</sup>
Emergency, Weekend, or Holiday P	hone.
E-mail Address:	
3. If Business is a Sole Proprietor (dba) or	
	Title:
Pusinose Address:	Title.
City State Zin:	
City, State, Zip.	Fave
Phone:	Fax
E-mail Address:	
If Business is a Corporation:	
Name of Officers: Kyle Larkin	Title: CEO
Name:	Title:
Name:	Title:
Name:	Title:
	ch Street
Olty, State, 21p. <u>SEC, 01 64110</u>	Fax:
E-mail Address: <u>I80.SouthQuarry@gcir</u>	Fdx
	ny: Member Managed ( ) Manager Managed ( )
Name of 1st Member/Manager:	Title:
Business Address:	
City, State, Zip:	F
Phone:	Fax
E-mail Address:	
	Title:
Business Address:	
City, State, Zip:	
Phone:	Fax:
E-mail Address:	
If Business is a Partnership:	
Names of Partners:	
Business Address:	
City, State, Zip:	
Phone:	Fax:
E-mail Address:	
If Business is a Partnership:	
The state of the s	
Business Address:	
City State Zin	
Phone:	Fax:
F-mail Address	

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5.	Ownership of Land Surface:	
	Private (Fee) (_X_) BLM () State Trust Land/School Section	ns () State Sovereign Lands ()
	Other (please describe):	Address PO Box 711820 Salt Lake City, UT 84171
		Address
		Address
		Address
6.	Ownership of Minerals:	
	Other (please describe):	ns () State Sovereign Lands ()
		Address
		Address
	Name	Address
7.	Have the above surface and m  If no, why not?  Does the Entity have legal right	nineral owners been notified in writing? Yes X No  that to enter and conduct mining operations on the land covered by
	mining and access/haul roads; e habitat	, i.e. cropland, grazing, wildlife habitat? <u>Private recreation;</u> electrical transmission lines; transmission line access roads; and
<u>transm</u>		? Public and/or private recreation; electrical transmission lines; habitat; and other uses consistent with private ownership
	Once mining is complete the ope	erator will conduct reclamation as required by these rules.
alone d mining <b>prior</b> to	loes not satisfy the notification requ activity on State Trust Lands requi	Is are involved, notification to the Division of Oil, Gas and Mining uirements of Mineral Leases upon State Trust Lands. Exploration or res a minimum of 60 days notice to the Trust Lands Administration se contact the School Institutional Trust Lands Administration (SITLA) ments.
II.	PROJECT LOCATION & MAP	(Rule R647-3-105)
1.	Project Location & Map (legal of	description):
	County(ies): Salt Lake County	
	1/4, of SW 1/4, of NI	E1/4, Section: <u>17</u>
	1/4 of NW 1/4 of SE	

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III.

	1/4, of <u>NE</u> 1/4, of <u>SE</u> 1/4, Section: <u>17</u> Township: <u>1 South</u> Range: <u>2 East</u> 1/4, of1/4, of1/4, Section:Township:Range:
	UTM East: 437,062.63 (if known) UTM North: 4,509,662.89 (If known)
	Name of Quad Map for Location: Mount Aire
2.	<u>Is the project within an incorporated area?</u> () Yes (_X_) No If yes, what is the town or city?
3.	Location and Operations maps must be plotted at a scale to accurately identify locational landmarks and operations details. All maps must include a north arrow, scale, appropriate labels, and title box including the mine name, township, range and section.
	a. The <b>general location map</b> must be the scale of a USGS 7.5 minute series map or equivalent (1"=2000') and identify new or existing access roads.
	b. The <u>operations map</u> (1"=200' or other scale as determined necessary by the Division) must be labeled and identify:
	<ul> <li>i. The area to be disturbed;</li> <li>ii. The location of any existing or proposed operations including access roads, drill holes, trenches, pits, shafts, cuts, or other planned activities; and</li> <li>iii. Any adjacent previous disturbance for which the operator is not responsible.</li> </ul>
	(Contact the Division for a list of consultants and land surveyors for mapping assistance.)
4.	The proposed disturbed area (including access/haul roads) should be marked ON THE GROUND with metal T-Posts (or with some other marker of equal effectiveness). Markers should be appropriately spaced so that the next marker in either direction is clearly visible with the naked eye.
	OPERATION PLAN (Rule R647-3-106)
1.	Type of mining: Surface (X) Underground ()
2.	Mineral(s) to be mined: Limestone hard rock. If deleterious or potentially deleterious materials
	become present on the site, the Operator will take preventative actions to mitigate impacts. All deleterious or potentially deleterious material will be safely removed from the site or left in an
	isolated or neutralized condition such that adverse environmental effects are eliminated or
	controlled. This is a limestone-based mining operation that will not liberate any toxic or acid-
_	forming materials requiring neutralization.
3.	<b>Amount of material</b> to be extracted, moved, or proposed to be moved: <u>To be mined consistent</u> with R647-3-114.
	WIGHT TO 47-5-114.
4.	Will any water, liquid chemicals, reagents, or other solutions be used, produced, or
	discharged as part of the mining or milling process? Yes ( $\underline{X}$ ) No ( $\underline{\underline{\hspace{0.5cm}}}$ ) If yes, please describe (add extra pages if needed): Water for fugitive dust control. Storm Water Pollution Plan
	(SWPPP) and Spill Prevention, Control, and Countermeasure (SPCC) plans will be developed
	specifically for this operation. All man-made structures, trash and other waste will be removed and disposed of at an approved local sanitary landfill or other appropriate facility.
	and dispessed of at an approved local carrier y landing of enter appropriate isomy.

 Provide a brief description of the proposed mining operation, and onsite processing facilities (add extra pages if necessary). On-site activities will include blasting, crushing, screening, dozing, hauling, etc. typical to similar surface mine operations. A qualified/licensed blasting Page 5 of 8

	consultant will be engaged for drill and blast procedures. The Operator will coordinate with Utah
	Highway Patrol (UHP) and Utah Department of Transportation (UDOT) prior to any blasting
	activities under this Notice. Such coordination will provide adequate lead time for UHP and
	UDOT to review proposed plans and implement any necessary traffic safety provisions. Mine
	operation will comply with all applicable Utah Department of Environmental Quality rules and
	regulations.
6.	( ) <b>New Road(s)</b> : Length 0(ft), Width0(ft)
7.	() Improved Road(s): Describe improvements that need to be made to existing roads to access the site, including the Length _0 _ (ft) and Width _0 (ft) of new disturbances.  The mine will be accessed using the existing access road.
	The mine will be accessed using the existing access road.
8.	Total project surface <b>acreage to be disturbed</b> :(acres) PLEASE SPECIFY <u>EXACT</u> ACREAGE (this will be used to determine surety bond amount – see #VI).
9.	Proposed <b>startup date</b> (month, year):16 July 2022
10.	Proposed <b>completion</b> , if known (month, year): <u>Unknown</u>

#### IV. OPERATION AND RECLAMATION PRACTICES (Rule R647-3-107, 108 & 109)

The reclamation and operation obligation are to keep the area clean and safe, minimize hazards to public safety, return the land to a useful condition, and reestablish at least 70 percent of the premining vegetative ground cover or within practical limits. To accomplish this, the Permittee / Operator will need to perform reclamation concurrently, or at the completion (within one (1) year) of mining. Please refer to The Practical Guide to Reclamation in Utah, available at:

https://fs.ogm.utah.gov/pub/MINES/Coal\_Related/RecMan/Reclamation\_Manual.pdf.

- 1. Keep the mining operation in a safe, clean, and environmentally stable condition.
- 2. Permanently seal all shafts and tunnels to prevent unauthorized or accidental entry.
- 3. Plug drill holes with a five-foot cement surface plug. Holes that encounter fluids are to be plugged in the subsurface to prevent aguifer contamination.
- 4. Construct berms, fences, or barriers, when needed, above highwalls and excavations.
- 5. Remove, isolate, or neutralize all toxic materials in a manner compatible with federal and state regulations.
- 6. Remove all waste or debris from stream channels.
- 7. Dispose of any trash, scrap metal, wood, machinery, and buildings.
- 8. Conduct mining activities to minimize erosion and control sediment.
- 9. Reclaim all roads that are not part of a permanent transportation system.
- 10. Stockpile topsoil and suitable overburden prior to mining.
- 11. Stabilize highwalls by backfilling or rounding to 45 degrees or less, where feasible; reshape the land to near its original contour and redistribute the topsoil and suitable overburden.
- 12. Properly prepare seedbed to a depth of six inches by pocking, ripping, discing, or harrowing. Leave the surface rough.
- 13. Reseed disturbed areas with adaptable species. (The Division recommends a mixture of species of grass, forb, and browse seed, and will provide a specific species list if requested.)
- 14. Plant the seed with a rangeland or farm drill or broadcast the seed. Fall is the preferred time to seed.

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#### V. VARIANCE REQUEST (Rule R647-3-110)

Any variance must be approved writing in advance by the Division

Any planned deviations from Rules R647-3-107, Operation Practices, R647-3-108, Hole Plugging Requirements, or R647-3-109, Reclamation Practices, as summarized above (see IV. Operation and Reclamation Practices Item # 1-14), should be identified below listing applicable rule number. Give justification for the variance(s) and alternate methods or measures to be utilized to meet the intent of the rule. Written approval from the Division will be given, if the proposed alternative methods to be used are consistent with the Act.

Are variances being requested? Yes ( ) No ( _X_ )						
Variance Requested						
Item# Applicable Rule Justification:						
Item# Applicable Rule						

Attach additional page(s) if more variances are requested.

#### VI. SURETY (Utah Code Ann. §40-8-7(1)[c])

A reclamation contract and surety must be provided to and approved by the Division prior to commencement of operations. No surface disturbance is authorized until the surety is posted and approved in writing. The surety may be provided in the form of a certificate of deposit, a letter of credit, a surety bond, or cash. Please contact the Division for further information about submitting the surety. All mining operations are required to furnish and maintain reclamation surety to guarantee that the land affected is reclaimed (Utah Code Ann. §40-8-7(1)[c]).

The reclamation surety amount is based on the nature, extent, and duration of operations. The amounts are based on data from current large mine surety and are used as a general guide, along with actual site conditions. Reclamation surety for small mines is reviewed every three (3) or five (5) years and adjusted as necessary for inflation/deflation based upon acceptable Costs Index. Contact the Division for the dollar amount required for a three (3) or five (5) year period for this project.

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#### VII. SIGNATURE REQUIREMENT

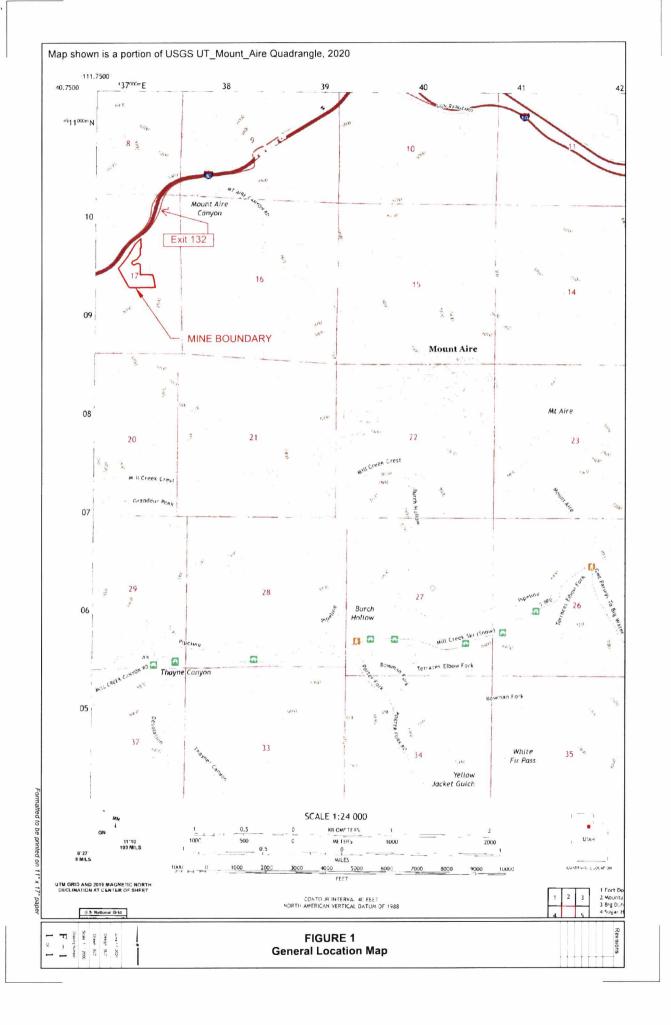
#### CERTIFICATION

I state under penalty of perjury under the laws of the state of Utah and the United States of America that:

- a. I have read this form and declare the information, statements and/or documentation are true, correct and complete to the best of my knowledge and belief; AND
- b. I commit to the reclamation of the aforementioned small mining project as required by the Utah Mined Land Reclamation Act (40-8) and the rules as specified by the Board of Oil, Gas and Mining.
- c. This certification must be signed by: (1.) an executive officer if the applicant is a corporation; (2.) a partner if applicant is a partnership (general or limited); (3.) the owner if applicant is a sole proprietorship; or (4.) the member or manager if applicant is a limited liability company.

Docusigned by: Mike Tatusko	D-1 0/45/0000
Signature: E29848A73AF5408	Date: <u>6/15/2022</u>
Name (typed or printed): Mike Tatusko	
Title/Position (if applicable): Senior Vice President and Ground	up Operations

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#### **LEGEND**

Small Mine Area (20 ac)

Parcel Line

Access Road or Point

Power Pole

#### NOTES:

Aerial photo from Google Earth (Imagery Date 9/11/2020)

- Property Lines: 25ft (mining)
  Property Lines: 0ft (any disturbance)
- Only along entrance road location Powerpoles: 50ft



#### **Bonding Calculations Summary and Total**

	-				2. 6	-				
1	) i	r	0	C'	1	C	1	C	t۷	2

Subtotal Demolition and Removal Subtotal Backfilling and Grading Subtotal Revegetation Direct Costs	\$73,210.40 \$127,763.98 \$20,000.00 20 acres at \$1000/acre \$220,974.38
Indirect Costs	
Mob/Demob	\$22,097.00 10.0%
Contingency	\$11,049.00 5.0%
Engineering Redesign	\$5,524.00 2.5%
Main Office Expense	\$15,026.00 6.8%
Project Management Fee	\$5,524.00 2.5%
Subtotal Indirect Costs	\$59,220.00 26.8%
Total Cost 2022	\$280,194.38
Number of years	5
Escalation factor	0.0464
Escalation	\$71,324.00
Reclamation Cost Escalated	\$351,518.38
Bond Amount (rounded to nearest \$1,000) 2027 Dollars	\$352,000.00
Proposed	\$186,000.00
Difference Between Cost Estimate and Bond Percent Difference	-\$166,000.00

	Description		Means	Unit	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit		Quantity	Unit	Cost	
Ref			Reference	Cost				1	1			1					Factor			1	
			Number				1				1										
		Demolition																			
		Crsuhers, Screens and Conveyors						1												\$	32,659.80
		Scale and Scale House																	I	\$	15,902.60
		AST Removal								1										S	24,648.00
		*The Division does not bond for the Earth N	Moving Equipment Re	moval																	
				_																	
		Total							The State of											\$	73,210,40

Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
Crushers, Screens, Conveyors				_		+			<del></del>	+	1	+	+	+	+	1	+	_	+
Deduct 50% no interior walls				1	1			1				1	1		_	1	<b>†</b>	<b>†</b>	+
Structure's Demolition Cost	Conveyors	02 41 16 13 0020	0	48 /cf	200		4	4	1			1	1		1 FT	1.3	4160	CF	199
Includes demolition, loading, and 20 mile	Jaw Crusher/Feeder	02 41 16 13 0020	0	48 /cf	40	1	2 1:	2	1				1		1 FT	1.3			199
haul (one way)	Cone Crusher	02 41 16 13 0020	0	48 /cf	40	1:	2 1	2	<b>†</b>			_	+	_	1 FT	1.5			359
	Screens (2)	02 41 16 13 0020	0	48 /cf	30	1	2 1	2			1	1	1		2 FT	1 1			539
Total Volume of Structures					1							1	1		-	1	30368		+
Subtotal					1			1	1						+	1	1	1	1457
Crusher and Screen Pads					1				1		-	1		1	+	1	1	_	1.10
Concrete Demolition	Floor 6" thick reinforced wire mesh	02 41 16 17 0420	1 .	3 /SF	180	1	0		1		1	1	1	_	FT	1	1800	SF	234
Demolition Cost						1		1	1			1	1	1	+	1	1	1-	
Concrete's Vol. Demolished			1		1	1	0 :	5	1			_		1	FT	1.3	3 4	CY	+
Loading and Transportation Cost	Loading Truck and haul with 40 mile cycle	31 23 23 30 1312	17.	60 /CY	1	1	1	1				+	1	_	1	1	1	,,,,,	756
	Salt Lake County			12 /ton	1	1	1		_		_	1	8	_	tons/CY	1	77.4	CY	92
Subtotal					1	1		1	_			1	1		10		1	1	4025
Crusher and Screen Footings						1	1	1			1	1	1			1		-	1020
Concrete Demolition	Footing 2' thick, 3' wide	02 41 16 17 1140		25 LF	450	ol .		1				1	1	1	LF	1	450	LF	112
Demolition Cost					1	1	1	1	1				1	1	1	1	1	1	+
Concrete's Vol. Demolished						1 :	2	3	1	200		1	1	1	1	1.3	130	CY	+
Loading and Transportation Cost	Loading Truck and haul with 40 mile cycle	31 23 23 30 1312	17.	60 /CY	1	1			1	_	1	1	1	_	1	1	1	, ,	+
Disposal Costs	Salt Lake County			12 /ton						1		1.	8	_	tons/CY		234	CY	280
Subtotal															1		1		140
Total																			32659

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	Description	Materials	Means	Unit	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell	Quantity	Unit	Cost
Ref			Reference Number	Cost													Factor	2		
	Scale House							I			T	I	Ī	Ì	1	Ī			1	1
	haul (one way)	Building Demolition (40 ft connex)	02 41 16 13 0020	0.48	/CF	10	2	0 10									1.3	2000	D cf	96
	Structure's Vol. Demolished																	2000		
		Salt Lake County			2 /ton								100				lb/cf	100	0 ton	
		Salt Lake County		11	2 /ton													100	0 ton	120
	Subtotal									1										216
	Scale						T							1	†		1		1	1
	Scale Demolition Cost Includes demolition, loading, and 20 mile haul (one way)	Scale removal	02 41 16 13 0020	0 48	/cf	120	11	0 4								FT	,	4800	0 CF	230
	Total Volume of Structures					1		1				1	<b>†</b>			1		4800	0 CF	_
	Subtotal						1		1			1			1				1	230
	Scale Pad						1					1			1				+	1
	Concrete Demolition	Floor 6" thick reinforced wire mesh	02 41 16 17 0420	1.3	3 /SF	40	4	0						1	1	FT	1	1600	0 SF	208
	Concrete's Vol. Demolished							0.5					1			FT	1.3		9 CY	1
	Loading and Transportation Cost	Loading Truck and haul with 40 mile cycle	31 23 23 30 1312	17.0	5 /CY									-					9 CY	686
	Disposal Costs	Salt Lake County		1;	2 /ton		1	1				1	1.8	1	1	ton/cy			2 ton	84
	Subtotal												1	1	1				1	3608.
	Scale Footing						1										1	1	_	-
	Concrete Demolition	Footing 2' thick, 3' wide	02 41 16 17 1140	2:	5 LF	216	5	1	1				1	1	1	LF		216	6 LF	540
	Concrete's Vol. Demolished							2					1	1			1.3	62	2 CY	1
	Loading and Transportation Cost	Loading Truck and haul with 40 mile cycle	31 23 23 30 1312	17.6	S/CY	1						1	1	1		<b>†</b>			2 CY	1091
	Disposal Costs	Salt Lake County		1;	2 /ton			1					1.8	t		ton/cy		111.6	6 ton	133
	Subtotal		1				1	1								1			1	7830.
																	1		1	1 7000.
	Total				1		1	1	1	_	_	1	1	<del> </del>	1	_	1		+	15902.

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	Description	Materials	Means	Unit	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell	Quantity	Unit	Cost
Ref.			Reference	Cost													Factor	,		1
			Number (Facilities)			1														
	Load ASTs for Disposal	12,000 gal AST	02 65 10 30 0130	200	0 \$/tank				Ť		12000					gal		1	lea	2000
	Pump tank contents	Per tank fee	02 65 10 30 0320	51	0 \$/tank								1			1 ea			1 ea	510
	Dispose of tank sludge	Assume 1/4 full	02 65 10 30 0390	6	8 \$/gal				1		3000		1		_	gal	_	3000	Ogal	20400
	Add dry ice to the tank (inert gas)	1.5lb/100 gal @12,000 gal	02 65 10 30 0401	2.	4 \$/lb						180		1			lbs	1	180		432 00
	Disconect and remove piping	cost per LF of pipe	02 65 10 30 0503	5.	2 \$/LF						30		1	1	1	ft	1		o ft	156.00
	Haul tank to salvage	100 miles round trip	02 65 10 30 1029	115	0 \$/tank											1 ea			1 ea	1150
	Total																			24,648.00

Equipment List	Equipment	Hourly Operating	Equipment	Operator's Hourly	Hourly	Process Description			Production		Quantity of Material to			
	Cost	Costs	Overhead	Wage Rate	Cost		Quantity	Units	Rate	Units	be Moved	Units		Cost
4x4 3/4 ton conventional diesel	194.01	9 53	0.1		15.82	Transportation throughout site	120	hrs					\$	1,898
Dozer - D8T	9570	124.85	0.1	89.85	490.36	Dozing topsoil piles	80	hrs	202	cy/hr	16,133	CY	\$	39,229
Dozer - D8T	9570	124.85	0.1	89.85	490.36	Grading topsoil and scarifying	9	hrs	2.24	ac/hr	20	AC	\$	4,413
Dozer - D8T	9570	124.85	0.1	89 85	490.36	Grading topsoil and scarifying	23	hrs	716	cy/hr	16,133	CY	\$	11,278
Loader Cat 980 M	3520	59.55	0.1	89.85	252.16	Loading trucks with topsoil from stockpile	30	hrs	532	cy/hr	16,133	CY	\$	7,565
Excavator 330 F L	4630	60.97	0.1	89.85	284.24	Knocking down abandoned high walls (esitmate)	35	hrs	422	cy/hr	15,000	CY	\$	9,948
Labor				67.9	67.9	Running Equipment	203	hrs					\$	13,784
Water Truck DSL 6x4 4000 gal	4000	74 06	0.1	79.25		Watering dozer path and roads	120	hrs					\$	32,486
Articulated Truck Cat 725C2	4740	59.87	0.1	79 25	275 46	Placing topsoil throughout site. Average roundtrip haul length: 1,200 ft, speed: 10 mph, & load: 20 CY	26.00	hrs	621.4	cy/hr	16,133	CY	s	7,162
Total													\$	127,764

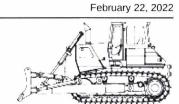


All prices shown in US dollars (\$)

#### Rental Rate Blue Book®

Caterpillar D8T Standard Crawler Dozers

Size Class: 260 - 359 HP Weight: 75845 lbs



#### Configuration for D8T

Dozer Type Power Mode Semi-U Diesel Operator Protection

**EROPS** 

#### **Blue Book Rates**

 $^{\star\star}$  FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

		Ownership	Costs		Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	USD \$34,180.00	USD \$9,570.00	USD \$2,395.00	USD \$360.00	USD \$124.85	USD \$319.05
Adjustments						
Region ( 100%)	-	-	-	-		
Model Year (2022: 100%)	12	<u>u</u>	· <u>·</u>	L @		
Adjusted Hourly Ownership Cost (100%)	-	-		v * y € v		
Hourly Operating Cost (100%)					-	
Total:	USD \$34,180.00	USD \$9,570.00	USD \$2,395.00	USD \$360.00	USD \$124.85	USD \$319.05

Non-Active Use RatesHourlyStandby RateUSD \$93.22Idling RateUSD \$230.63

#### **Rate Element Allocation**

Element	Percentage	Value
Depreciation (ownership)	32%	USD \$10,937.60/mo
Overhaul (ownership)	52%	USD \$17,773.60/mo
CFC (ownership)	5%	USD \$1,709.00/mo
Indirect (ownership)	11%	USD \$3,759.80/mo
Fuel (operating) @ USD 3.65	29%	USD \$36.43/hr

Revised Date: 1st quarter 2022

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All prices shown in US dollars (\$)

#### Rental Rate Blue Book®

February 22, 2022

Caterpillar 980M 4-Wd Articulated Wheel Loaders

Size Class: **350 - 499 HP** Weight: N/A



#### Configuration for 980M

**Bucket Capacity** Operator Protection 16.0 cu yd ROPS/FOPS

Horsepower Power Mode 386.0 hp

#### **Blue Book Rates**

\*\* FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

		Ownership (	Costs	***	Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	USD \$12,570.00	USD \$3,520.00	USD \$880.00	USD \$135.00	USD \$59.55	USD \$130.97
Adjustments						
Region ( 100%)	-			- 1 · 1 · 1		
Model Year (2022: 100%)	-	-	=:	2 × 10 ±		
Adjusted Hourly Ownership Cost (100%)	~	1-	•			
Hourly Operating Cost (100%)			78.01		-	
Total:	USD \$12,570.00	USD \$3,520.00	USD \$880.00	USD \$135.00	USD \$59.55	USD \$130.97

Non-Active Use Rates Hourly Standby Rate USD \$47.14 Idling Rate USD \$98.48

#### **Rate Element Allocation**

Element	Percentage	Value
Depreciation (ownership)	47%	USD \$5,907.90/mo
Overhaul (ownership)	34%	USD \$4,273.80/mo
CFC (ownership)	5%	USD \$628.50/mo
Indirect (ownership)	14%	USD \$1,759.80/mo
Fuel (operating) @ USD 3.65	45%	USD \$27.06/hr

Revised Date: 1st quarter 2022

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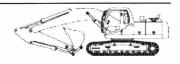


All prices shown in US dollars (\$)

#### Rental Rate Blue Book®

Caterpillar 330F L Crawler Mounted Hydraulic Excavators

Size Class: 28.1 - 33.0 MTons Weight:



February 22, 2022

#### Configuration for 330F L

Bucket Capacity2.3 cu ydHorsepower235 hpOperating Weight69950 lbsPower ModeDiesel

#### **Blue Book Rates**

\*\* FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

		Ownership	Costs		Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	USD \$16,525.00	USD \$4,630.00	USD \$1,160.00	USD \$175.00	USD \$60.97	USD \$154.86
Adjustments				W. Park	. P	1
Region ( 100%)			-	- , %	1/9	
Model Year (2022: 100%)	-	-		- 1 ± 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1
Adjusted Hourly Ownership Cost (100%)	:-	-	×	K - 44		
Hourly Operating Cost (100%)				17	-	
Total:	USD \$16,525.00	USD \$4,630.00	USD \$1,160.00	USD \$175.00	USD \$60.97	USD \$154.86

Non-Active Use RatesHourlyStandby RateUSD \$50.70Idling RateUSD \$110.54

#### **Rate Element Allocation**

Element		Percentage	Value
Depreciation (ownership)		40%	USD \$6,610.00/mo
Overhaul (ownership)		46%	USD \$7,601.50/mo
CFC (ownership)		4%	USD \$661.00/mo
Indirect (ownership)		10%	USD \$1,652.50/mo
Fuel (operating) @ USD 3.65	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	27%	USD \$16.65/hr

Revised Date: 1st quarter 2022

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All prices shown in US dollars (\$)

#### Rental Rate Blue Book®

February 22, 2022

Caterpillar 725C2 Articulated Rear Dumps

Size Class: 26 - 29 MTons Weight: N/A



#### Configuration for 725C2

Power Mode

Diesel

#### **Blue Book Rates**

\*\* FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

		Ownership	Costs		Estimated Operating Costs	FHWA Rate**
	Monthly	Weekly	Daily	Hourly	Hourly	Hourly
Published Rates	USD \$16,920.00	USD \$4,740.00	USD \$1,185.00	USD \$180.00	USD \$59.87	USD \$156.01
Adjustments						
Region ( 100%)	•	(5)	*	- 4	1 2	
Model Year (2022: 100%)	-	Ä	¥	*		
Adjusted Hourly Ownership Cost (100%)	8	8	5	*		
Hourly Operating Cost (100%)				A CONTRACTOR OF THE PARTY OF TH	-	
Total:	USD \$16,920.00	USD \$4,740.00	USD \$1,185.00	USD \$180.00	USD \$59.87	USD \$156.01

Non-Active Use RatesHourlyStandby RateUSD \$53.84Idling RateUSD \$118.03

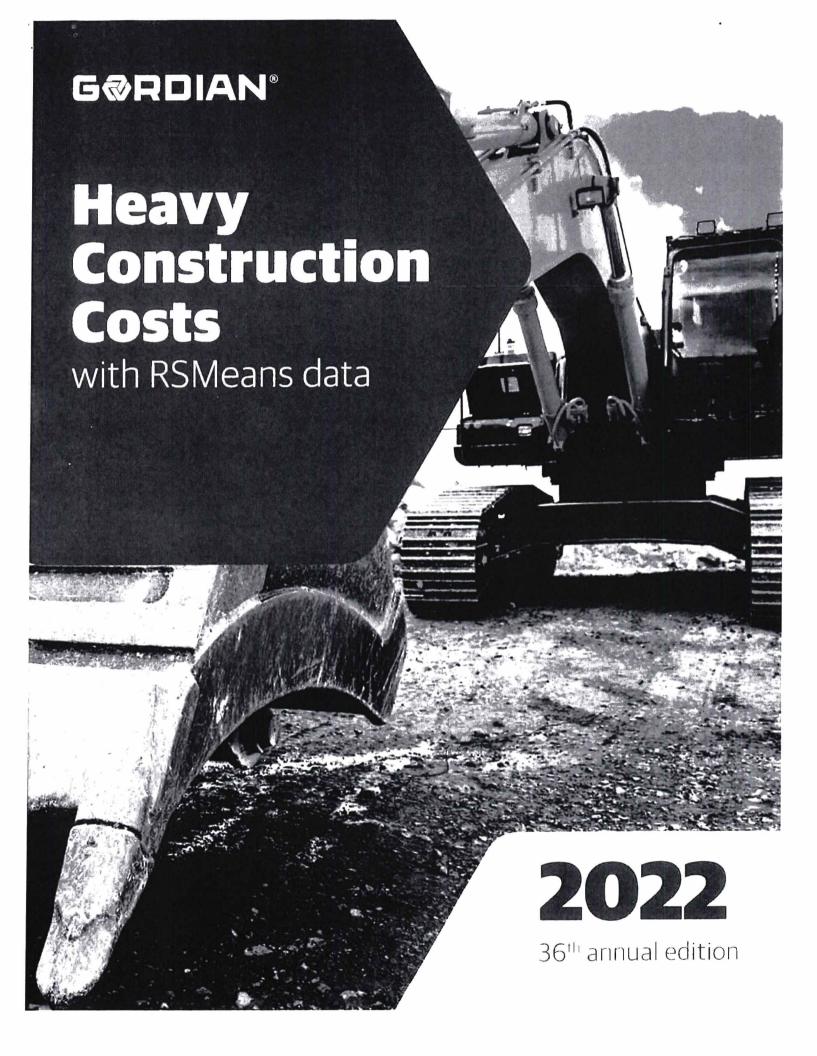
#### **Rate Element Allocation**

Element		Percentage	Value
Depreciation (ownership)		40%	USD \$6,768.00/ma
Overhaul (ownership)		44%	USD \$7,444.80/mo
CFC (ownership)		4%	USD \$676.80/mo
Indirect (ownership)	A STATE OF THE PARTY OF THE PAR	12%	USD \$2,030.40/mo
Fuel (operating) @ USD 3.65	the state of the s	37%	USD \$21.89/hr

Revised Date: 1st quarter 2022

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00 4	1 13 - Selective Site Demolition	Company of the				4	L. Carlotte	A TOP OF THE			
024			and the second	Daily	Labor-			2022 Ba			Total
02 41	13.92 Selective Demolition, Parking Appurte	enances	Crew	Output		Unit	Material	Labor	Equipment	Total	Incl O&P
0500	Flexible fixed garage stanchion		B-6	150	.160	Eu.		7.9	2.1	10.0	14.1
0600	Wheel stops, precust concrete			120	.200			9.9	2.7 2.7	12.6 12.6	17.7
0700	Thermoplastic			120	.200			9.9		18.9	
0800	Pipe bollards, 6"-12" diam.	The second second	9	80	.300	7	DENERGY IN	14.8	4.1	10.7	26.5
02 4	1 16 - Structure Demolition				<b>19</b>		All the second	mer services	· · · · · · · · · · · · · · · · · · ·	1.195%	C. C.
02 41	16.13 Building Demolition										
0010	BUILDING DEMOLITION Large urban projects, incl. 20 mi. haul	R024119-10									9
0011	No foundation or dump fees, C.F. is vol. of building standing									0.0	
0020	Steel		B-8	21500	.003	SH		.16	.22	.38	.4
0050	Concrete		B-8	15300	.004	r. f		.22	.31	.53	.6
0800	Masonry			20100	.003			.17	.24	.41	.5
0100	Mixture of types			20100	.003			.17	.24	.41	.5
)500	Small bldgs, or single bldgs, no salvage included, steel		8.3	14800	.003			.17	.18	.35	.4
0600	Concrete			11300	.004			.22	.24	.46	.5
0650	Masonry			14800	.003			.17	.18	.35	.4
700	Wood		$\nabla$	14800	.003			.17	.18	.35	.4
0750	For buildings with no interior walls, deduct					44				30%	30%
1000	Demolition single family house, one story, wood 1600 S.F.		B-3	1	48	Ea.		2,450	2.725	5,175	6,650
1020	3200 S.F.			.50	96			4,875	5,425	10,300	13,300
200	Demolition two family house, two story, wood 2400 S.F.			.67	71.964			3,650	4,075	7,725	9,925
220	4200 S.F.			.38	128			6,525	7,250	13,775	17,700
1300	Demolition three family house, three story, wood 3200 S.F.			.50	96			4,875	5,425	10,300	13,300
1320	5400 S.F.		7	.30	160			8,150	9,050	17,200	22,100
5000	For buildings with no interior walls, deduct					+				30%	30%
02 41	16.15 Explosive/Implosive Demolition										
0010	EXPLOSIVE/IMPLOSIVE DEMOLITION	RO24119-10									
0011	Large projects,										
0020	No disposal fee based on building volume, steel building		B-5B	16900	.003	C.F.		.16	.20	.36	.4
0100	Concrete building			16900	.003			.16	.20	.36	Á
0200	Masonry building			16900	.003			.16	.20	.36	.4
)400	Disposal of material, minimum		B-3	445	.108	C.Y.		5.5	6.1	11.6	14.9
0500	Maximum		si .	365	.132	"		6.7	7.4	14.1	18.1
02 41	16.17 Building Demolition Footings and Fou	ndations									
	BUILDING DEMOLITION FOOTINGS AND FOUNDATIONS	R024119-10									
0200	Floors, concrete slab on grade,										
0240	4" thick, plain concrete		B-13L	5000	.003			.20	.52	.72	.8.
0280	Reinforced, wire mesh			4000	.004			.25	.65	.90	1.0
0300	Rods			4500	.004			.23	.58	.81	. 5
0400	6" thick, plain concrete			4000	.004			.25	.65	.90	1.0
)420	Reinforced, wire mesh			3200	.005			.32	.81	1.1	1.3
)440	Rods			3600	.004			.28	.72	1	1.2
000	Footings, concrete, 1' thick, 2' wide			300	.053	+ +		3.3	8.6	12.0	14.5
1080	1'-6" thick, 2' wide			250	.064			4.0	10.3	14.4	17.4
1120	3' wide			200	.080			5.0	12.9	18	22
1140	2' thick, 3' wide			175	.091			5.8	14.8	20.6	25
1200	Average reinforcing, add									10%	10%
1220	Heavy reinforcing, add					21				20%	20%
2000	Walls, block, 4" thick		B-13L	8000	.002	S.F		.13	.32	.45	
2040	6" thick		,	6000	.003			.17	.43	.60	
2040	8" thick			4000	.004			.25	.65	.90	1.0
2000	190 A. A.			3000	กกร			34	86	12	1 4
	The state of the s				1.00				****	3 6	

38 Snow Control  Snow Fencing		50 T 1 T						
240 Snow Fencing System	Crew	Daily Output	Labor- Hours	Unit	Material	2022 Bare Costs Labor Equipment	Total	Total Incl O&P
NOW FENCING SYSTEM  Snow force on steel posts 10' OC, 4' high	B-1	500	.048	L.F.	3.6	2.2	5.8	7.3

	NOW FENCING SYSTEM						0.7	0.0			7.0
	Snow fonce on steel posts 10' OC, 4' high		B-1	500	.048	L.F.	3.6	2.2		5.8	7.3
_											
1	65 Underground Storage	Tal	nk	Re	mo	va					
02	65 Officerstourid Storage	100000		110		12 3271				ना रही स्थाप प्रतिके	CAMPACION N
100	510 - Underground Tank and Contam	inate	ed So	oil R	emo	vai			* # Nove 9	1. 计算数	
15 /E	10.30 Removal of Underground Storage lanks										
	REMOVAL OF UNDERGROUND STORAGE TANKS										
5000	Petrolaum storage tanks, non-leaking										
0011	Excavate & load onto trailer										
0100	3,000 gal. to 5,000 gal. tank	G	B-14	4	12	Ea.		575	82	657	945
<b>0110</b> 0120	6,000 gal. to 8,000 gal. tank	G	B-3A	3	13.333	į		645	330	975	1,325
0130	9,000 gal. to 12,000 gal. tank	G	"	2	20	-		970	495	1,465	2,000
0190	Known leaking tunk, add					%				100%	100%
0200	Remove sludge, water and remaining product from bottom										
0201	si tank with vacuum truck								00000		
0300	3,000 gal. to 5,000 gal. tank	G	A-13	5	1.600	Ea.		91	154	245	305
0310	6,000 gal. to 8,000 gal. tank	G	A-13	4	2	Eo.		114	192	306	380
0320	9,000 gal. to 12,000 gal. tank	G	"	3	2.667			152	257	409	510
0390	D'spose of sludge off-site, average					Gal.				6.2	6.84
0400	Insert inert solid CO2 "dry ice" into tank										21.47
0401	For cleaning/transporting tanks (1.5 lb./100 gal. cap)	G	1 Clab	500	.016	Lb.	1.2	.73		1.9	2.4
0503	Disconnect and remove piping	G	1 Plum	160	.050	L.f.		3.4		3.4	5.2
0603	Transfer liquids, 10% of volume	G	"	1600	.005	Gal.		.35		.35	.52
0703	Cut accessway into underground storage tank	G	1 Clab	5.33	1.501	Ea.		68.5		68.5	102
0813	Remove sludge, wash and wipe tank, 500 gal.	G	1 Plum	8	1			70		70	104
0823	3,000 gal.	G		6.67	1.199			83.5		83.5	125
0833	5,000 gal.	G		6.15	1.301	1		91		91	135
0843	8,000 gal.	G		5.33	1.501	9		105		105	156
0853	10,000 gal.	G		4.57	1./51	0		122		122	182
0863	12,000 gal	G	¥	4.21	1.900			133		133	198
1020	Raul tank to certified salvage dump, 100 miles round trip					-				7/0	830
1023	3,000 gal. to 5,000 gal. tank					Ea.				760	960
1026	6,000 gal. to 8,000 gal. tank									088	A
1029	9,000 gal. to 12,000 gal. tank									1,050	1,150
1100	Disposal of contaminated soil to landfill					CV				145	160
1110	Minimum					C.Y.				400	440
1111	Maximum									400	440
1120	Disposal of contaminated soil to										
1121	bituminous concrete batch plant					C 1/				80	88
1130	Minimum					€.Y. ″				115	125
1131	Maximurn	[67]	0.106	-0	20			1 750	1.050	3,700	4,725
1203	Excavate, pull & load tank, backfill hole, 8,000 gal. +	G	B-12C	.50	32	En.		1,750	1,950	1,315	1,625
1213	Houl tank to certified dump, 100 miles rt, 8,000 gal. +	G	B-34K	1	8			425 850	890 330	1,180	1,600
1223	Excavate, pull & load tank, backfill hole, 500 gal.	G	B-11C		16	,				2,505	3,400
1233	Excavate, pull & load tank, backfill hole, 3,000-5,000 gal.	G	B-11M	.50	32			1,700	805		1,050
1243	Houl tank to certified dump, 100 miles rt, 500 gal.	G	8-341	I	8			455	340 375	795 s 830	1,100
1253	Houl tank to certified dump, 100 miles rt, 3,000-5,000 gal.	G	B-34M	!	8			455	3/3	030	1,100
2010	Decontamination of soil on site incl poly tarp on top/bottom										
2011	Soil containment berm and chemical treatment								0.0	10.7	20

25

27.5

19.6

21.9

3.2

3.2

7.9

10.2

8.5

8.5

G

**G** B-11**C** 100 .160 C.Y.

100 .160

2020

2021

Minimum

Maximum

# 31 23 Excavation and Fill

	23.20 Hauling	Daily Labor- Crew Output Hours Unit N	2022 Bare Co Naterial Labor Equ	
1224	cycle 8 miles	B-34B 108 074 LC.Y.	3. <b>9</b>	
1225	cycle 10 miles	96 .083	4.4	
1226	20 MPH avg., cycle 0.5 mile	264 .030		
1228	cycle 1 mile	252 .032	1.6	2.9 4.5
1230	cycle 2 miles		1.6	3.0 4.7
1232	cycle 4 miles		1.9	3.5 5.5
1234	cycle 6 miles	180 .044	2.3	4.2 6.6
1236	cycle 8 miles	144 .056	2.9	5.3 8.3
1238	cycle 10 miles	132 .061	3.2	5.8 9.0
1240	25 MPH avg., cycle 4 miles	108 .074	3.9	7.1 11.0
1242	• •	192 .042	2.2	4 6.2
1244	cycle 6 miles	168 .048	2.5	4.5 7.1
1246	cycle 8 miles	144 .056	2.9	5.3 8.3
1250	cycle 10 miles	132 .061	3.2	5.8 9.0
	30 MPH avg., cycle 4 miles	204 .039	2.0	3.7 5.8
1252	cycle 6 miles	180 .044	2.3	4.2 6.6
1254	cycle 8 miles	156 .051	2.7	4.9 7.6
1256	cycle 10 miles	144 .056	2.9	5.3 8.3
1260	35 MPH avg., cycle 4 miles	216 .037	1.9	
1262	cycle 6 miles	192 .042	2.2	
1264	cycle 8 miles	168 048		4 6.2
1266	cycle 10 miles	156 .051	2.5	4.5 7.1
1268	cycle 20 miles	108 074	2.7	<b>4.9</b> 7.6
1269	cycle 30 miles		3.9	7.1 11.0
1270	cycle 40 miles	72 .111	5.9	10.6
1272	40 MPH avg., cycle 6 miles	60 .133	7.0	12.8 19.8
1274	cycle 8 miles	192 .042	2.2	4 6.2
1276	cycle 10 miles	180 .044	2.3	4.2 6.6
1278		156 .051	2.7	4.9 7.6
1280	cycle 20 miles	108 .074	3.9	7.1 11.0
1282	cycle 30 miles	84 .095	5.0	9.1 14.2
	cycle 40 miles	72 .111		10.6 16.5
1284	cycle 50 miles	60 .133		12.8 19.8
1294	45 MPH avg., cycle 8 miles	180 .044	2.3	4.2 6.6
1296	cycle 10 miles	168 .048	2.5	
298	cycle 20 miles	120 .067		
300	cycle 30 miles	96 .083		6.4 9.9
302	cycle 40 miles	72 .111		8 12.4
304	cycle 50 miles	60 .133		0.6 16.5
306	50 MPH avg., cycle 10 miles	180 .044		2.8 19.8
308	cycle 20 miles			4.2 6.5
310	cycle 30 miles	B-34B 132 .061 L.C.Y.		5.8 9.0
312	cycle 40 miles	96 .083	4.4	8 12.4
314	cycle 50 miles	84 .095	5.0	9.1 14.2
114		72 .111	5.9	0.6 16.5
116	15 MPH avg., cycle 0.5 mile, 25 min. wait/ld./uld.	204 .039		3.7 5.8
18	cycle 1 mile	192 .042		6.2
	cycle 2 miles	168 .048		1.5 7.1
20	cycle 4 miles	132 .061		5.8 9.0
22	cycle 6 miles	120 .067		5.4 9.9
24	cycle 8 miles	96 083		
25	cycle 10 miles	84 .095		
26	20 MPH avg., cycle 0.5 mile	216037		1 14.2
28	cycle 1 mile	204 .039		.5 5.5
30	cycle 2 miles		2.0	a d
32	cycle 4 miles	180 .044	2.3 4	.2 6.6
	C/C/O 1 (1)1103	156 .051	2.7 4.	9 7.6

	11	54 33   Equipment Rental		UNIT	HOURLY OPER. COST	RENT PER DAY	RENT PER WEEK	RENT PER MONTH	EQUIPMENT COST/DAY
4	00	75 ton capacity		Ea.	11.43	305	941.21		279.7
40	310	Trailer mounted cable reel for high voltage line work			6.06	252.67	758	2,274	200.1
	320	Trailer mounted cable tensioning rig			12.03	83.33	250	750	146.2
	6830	Cable pulling rig			76.00	142.50	427.50	1,282.50	693.5
	6850	Portable cable/wire puller, 8000 lb max pulling capacity Water tank trailer, engine driven discharge, 5000 gallons			3.81	189.35	524.76	1,258.33	135.4
	6900	10,000 gallons		++	7.39	160 218	498.58 677.42	1,450	158.8.
	6925 6950	Water truck, off highway, 6000 gallons			74.06	1,333.33	4,000	12,000	216
	7010	Tram car for high voltage line work, powered, 2 conductor			7.09	29.33	88	264	1,392.5
	7020	Transit (builder's level) with tripod			.10	51.78	129.89	345.56	26.7
	7030	Trench box, 3000 lb., 6' x 8'			.58	97.50	304	880	65.4
	7040	7200 lb., 6' x 20'			.74	189	587.69	1,700	123.4
	7050	8000 lb., 8' x 16'		1	1.11	205	637.76	1,850	136.4
	7060	9500 lb., 8' x 20'			1.24	235	731.61	2,125	156.2
	7065	11,000 lb., 8' x 24'	<del></del>		1.30	221	688.25	2,000	148.0
	7070	12,000 lb., 10′ x 20′			1.54	267	829.16	2,400	178.14
	7100	Truck, pickup, 3/4 ton, 2 wheel drive			9.53	62.50	194.01	560	115.08
	7200	4 wheel drive	-		9.79	174.39	508.64	1,505.15	180.0
	7250	Crew carrier, 9 passenger			13.07	109	340.44	985	172.6
	7290	Flat bed truck, 20,000 lb. GW		$\vdash$	15.75	134	417.29	1,200	209.4
	7300 7410	Tractor, 4 x 2, 220 H.P. 330 H.P.			22.97	218	677.42	1,950	319.2
- 1	7500	6 x 4, 380 H.P.		-	33.37 37.26	298 345	926.71 1,073.03	2,675 3,100	452.3
	7600	450 H.P.			45.66	420	1,300.64	3,775	512.60 625.30
	7610	Tractor, with A frame, boom and winch, 225 H.P.		-	25.54	296	919.57	2,650	388.20
	7620	Vacuum truck, hazardous material, 2500 gallons			13.20	315	975.48	2,825	300.72
	7625	5,000 gallons			13.44	445	1,381.93	4,000	383.94
	7650	Vacuum, HEPA, 16 gallon, wet/dry			.88	134.09	386.21	1,005.30	84.26
	7655	55 galion, wet/dry			.80	33.91	86.79	228.64	23.77
	7660	Water tank, portable			.75	147.40	425.74	1,083.40	91.17
	7690	Sewer/catch basin vacuum, 14 C.Y., 1500 gallons			17.87	670	2,086.44	6,025	560.27
1	7700	Welder, electric, 200 amp			3.94	36.22	80.22	226.25	47.54
	7800	300 amp			5.73	32.08	81.30	214.09	62.07
	7900	Gas engine, 200 amp			9.23	102.73	283.48	666.52	130.57
	8000	300 amp			10.45	112.44	318.78	711.33	147.37
	8100	Wheelbarrow, any size Wrecking ball, 4000 lb.			.07	13.94	34.91	98.91	7.51
				*	2.58	62	186	558	57.84
50		HIGHWAY EQUIPMENT RENTAL without operators	R015433 -10	-	01.06	1.550	4.050.00	14.000	1 700 10
	0050	Asphalt batch plant, portable drum mixer, 100 ton/hr.  200 ton/hr.	-10	Ea.	91.26	1,550	4,850.30	14,000	1,700.12
	0070	300 ton/hr.			105.27	1,675	5,175.46	15,000	1,877.29
	0100	Backhoe attachment, long stick, up to 185 H.P., 10.5' long			123.72	1,950	6,069.65 80.21	17,600 232	2,203.69 19.09
	0140	Up to 250 H.P., 12' long			.42	29	89.96	260	21.39
	0180	Over 250 H.P., 15' long			.58	39.50	122.48	355	29.16
	0200	Special dipper arm, up to 100 H.P., 32' long			1.19	80.50	250.37	725	59.63
	0240	Over 100 H.P., 33' long			1.49	101	314.32	910	74.79
	0280	Catch basin/sewer cleaning truck, 3 ton, 9 C.Y., 1000 gal.			36.53	425	1,327.74	3,850	557.79
	0300	Concrete batch plant, portable, electric, 200 C.Y./hr.			24.96	565	1,761.28	5.100	551.97
	0520	Grader/dozer attachment, ripper/scarifier, rear mounted, up to 135 H.P.			3.25	64	199.43	575	65.90
	0540	Up to 180 H.P.			4.27	97	301.31	870	94.41
	0580	Up to 250 H.P.			6.04	155	482.32	1,400	144.78
1	0700	Pvmt. removal bucket, for hyd. excavator, up to 90 H.P.			2.23	59	183.17	530	54.46
1 -	0740	Up to 200 H.P.			2.38	75.50	234.11	675	65.86
1	0780	Over 200 H.P.			2.60	92.50	<b>2</b> 87.22	830	78.24
1	0900	Aggregate spreader, self-propelled, 187 H.P. Chemical spreader, 3 C.Y.			52.23 3.26	750	2,330.31	6,750	883.90 68.11
1 1	1000							630	

#### untractor's Overhead & Profit

the average installing contractor's percentage markups to base labor rates to arrive at typical billing rates.

mn A: Labor rates are based on union wages averaged for 30 major U.S. cities. Base rates, including fringe benefits, are listed hourly and daily. These figures are the sum of the wage rate and employer-paid fringe benefits such as vacation pay, employer-paid health and welfare costs, and pension costs, plus appropriate training and industry advancement funds costs.

**Column B**: Workers' compensation rates are the national average of state rates established for each trade.

**Column C**: Column C lists average fixed overhead figures for all trades. Included are federal and state unemployment costs set at 8%; social security taxes (FICA) set at 7.65%; builder's risk insurance costs set at 0.80%; and public liability costs set at 2.02%. All percentages, except those for social security taxes, vary from state to state as well as from company to company.

**Columns D and E**: Percentages in Columns D and E are based on the presumption that the installing contractor has annual billing of \$4,000,000 and up. Overhead percentages may increase with smaller annual billing. The overhead percentages for any given contractor may vary greatly and depend on a number of factors such as the contractor's annual volume, engineering and logistical support costs, and staff requirements. The figures for overhead and profit will also vary depending on the type of job, the job location, and the prevailing economic conditions. All factors should be examined very carefully for each job.

Column F: Column F lists the total of Columns B, C, D, and E.

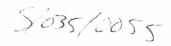
**Column G**: Column G is Column A (hourly base labor rate) multiplied by the percentage in Column F (O&P percentage).

**Column H**: Column H is the total of Column A (hourly base labor rate) plus Column G (Total O&P).

Column I: Column I is Column H multiplied by eight hours.

		,	Д	В	С	D	Е	F	G	Н	ı
			Base Rate Incl. Fringes		Average Fixed Over-	Over-		Total Overhead & Profit		Rate with O & P	
Abbr.	Trade	Hourly	Daily	Comp.	head	head	Profit	%	Amount	Hourly	Daily
Skwk	Skilled Workers Average (35 trades) Helpers Average (5 trades) Foreman Average, Inside (\$0.50 over trade) Foreman Average, Outside (\$2.00 over trade) Common Building Laborers	\$58.90 43.30 59.40 60.90 45.60	\$471.20 346.40 475.20 487.20 364.80	8.7% 11.6 8.7 8.7 9.4	18.5%	13.0% 11.0 13.0 13.0 11.0	1,0%	50.2% 51.1 50.2 50.2 48.9	\$29.55 22.15 29.80 30.60 22.30	\$ 88.45 65.45 89.20 91.50 67.90	
Asbe Boil Bric Brhe Carp	Asbestos/Insulation Workers/Pipe Coverers Boilermakers Bricklayers Bricklayer Helpers Carpenters	63.05 70.50 55.25 45.00 56.30	504.40 564.00 442.00 360.00 450.40	8.5 4.8 10.6 10.6 9.4		16.0 16.0 11.0 11.0 11.0		53.0 49.3 50.1 50.1 48.9	33.40 34.75 27.65 22.55 27.50	96.45 105.25 82.90 67.55 83.80	771.60 842.00 663.20 540.40 670.40
Cefi Elec Elev Eghv Egmd	Cement Finishers Electricians Elevator Constructors Equipment Operators, Crane or Shovel Equipment Operators, Medium Equipment	53.15 66.20 93.55 63.40 60.40	425.20 529.60 748.40 507.20 483.20	6.8 4 1 3.5 6.3 6.3		11.0 16.0 16.0 14.0 14.0		46.3 48.6 48.0 48.8 48.8	24.60 32.20 44.95 30.95 29.45	77.75 98.40 138.50 94.35 89.85	622.00 787.20 1108.00 754.80 718.80
Eqlt Eqol Eqmm Glaz Lath	Equipment Operators, Light Equipment Equipment Operators, Oilers Equipment Operators, Master Mechanics Glaziers Lathers	57.00 54.00 63.50 54.00 56.00	456.00 432.00 508.00 432.00 448.00	6.3 6.3 6.3 9.1 6.5		14.0 14.0 14.0 11.0 11.0		48.8 48.8 48.8 48.6 46.0	27.80 26.35 31.00 26.25 25.75	84.80 80.35 94.50 80.25 81.75	678.40 642.80 756.00 642.00 654.00
Marb Mill Mstz Pord Psst	Marbie Setters Millwrights Mosaic & Terrazzo Workers Painters, Ordinary Päinters, Structural Steel	55.05 60.55 53.40 47.80 48.90	440.40 484.40 427.20 382.40 391.20	10.6 5.0 6.6 8.7 20.1		11.0 11.0 11.0 11.0 11.0		50.1 44.5 46.1 48.2 59.6	27.55 26.95 24.60 23.05 29.15	82.60 87.50 78.00 70.85 78.05	660.80 700.00 624.00 566.80 624.40
Pape Pile Plas Plah Plum	Paper Hangers Pile Drivers Plasterers Plasterer Helpers Plumbers	48.05 58.20 51.40 45.85 69.80	384.40 465.60 411.20 366.80 558.40	8.7 10.2 9.1 9.1 4.6		11.0 16.0 11.0 11.0 16.0		48.2 54.7 48.6 48.6 49.1	23.15 31.85 25.00 22.30 34.30	71.20 90.05 76.40 68.15 104.10	569.60 720.40 611.20 545.20 832.80
Rodm Rofc Rots Rohe Shee	Rodmen (Reinforcing) Roofers, Composition Roofers, Tile & Slate Roofers, Helpers (Composition) Sheet Metal Workers	60.70 49.60 49.60 37.25 67.55	485.60 396.80 396.80 298.00 540.40	6.8 22.6 22.6 22.6 6.2		14.0 11.0 11.0 11.0 16.0		49.3 62.1 62.1 62.1 50.7	29.95 30.80 30.80 23.15 34.20	90.65 80.40 80.40 60.40 101.75	725.20 643.20 643.20 483.20 814.00
Spri Stpi Ston Sswk Tilf	Sprinkler Installers Steamfitters or Pipefitters Stone Masons Structural Steel Workers Tile Layers	68 55 70.35 55.60 61.85 53.15	548.40 562.80 444.80 494.80 425.20	4.8 4.6 10.6 11.5 6.6		16.0 16.0 11.0 14.0 11.0		49.3 49.1 50.1 54.0 46.1	33.75 34.55 27.85 33.40 24.50	102.30 104.90 83.45 95.25 77.65	818.40 839.20 667.60 762.00 621.20
Trlt Trhv Sswl Wrck	Tile Layers Helpers Truck Drwers, Light Truck Drwers, Heavy Welders, Structural Steel "Wrecking	42.80 50.40 53.05 61.95 45.60	342.40 403.20 424.40 495.60 364.80	6.6 9.9 9.9 11.5 11.6		11.0 11.0 11.0 14.0 11.0		46.1 49.4 49.4 54.0 51.1	19.75 24.90 26.20 33.45 23.30	62.55 75.30 79.25 95.40 68.90	500.40 602.40 634.00 763.20 551.20

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